



DEGREE CONTROLS, INC.

Your Partner for Airflow Sensing & Controls

# Rooster™ Monitor200

## Applications

- Chemical Fume Hoods
- Laminar Flow Hoods
- Biosafety Cabinetry
- Clean Room Monitoring
- Building Management
- Critical Containment

## Overview

The Rooster™ Monitor200 with BACnet® MS/TP capability from Degree Controls represents a new generation of airflow monitoring and alarming. The Monitor200 is our full-featured, highly flexible, alarming and monitoring system with increased functionality for advanced users. It is designed for chemical fume hoods, biosafety cabinets, and a wide range of critical containment applications where airflow is to be monitored, alarmed, and communicated. The Monitor200 with BACnet® capability allows for ease of integration into building automation and control systems, supporting reduced energy costs and maximum building efficiency.

With a glove-friendly, color touch-screen and on-screen messaging, the Monitor200 is intuitive and easy to use. The graphical user interface guides operators through procedures with on-screen instructions, and users can add laboratory specific information such as Safety Officer phone numbers and unique asset tags. Using temperature compensated, Degree Controls' instrumentation-class air velocity sensing, calibration is faster, more accurate, and more reliable.

Single and multiple event alarms are clearly displayed to the user, and the INFO button allows instant access to calibration date, alarm thresholds, and other critical system information. The Monitor200 conveys status by updating the background color of the screen, and critical safety alarms are augmented with a blinking LED. Dual password protection allows users to personalize operational experience while preserving safety features set by facility managers.

User's preferences can be uploaded/downloaded via USB. Importing the configuration file to other Monitor200s in your facility saves valuable setup time and ensures operational consistency. The built-in USB port also allows for firmware updates to protect your investment, as well as USB export of event data logging for compliance record keeping.

Powered by supplied wall adapter or 24VAC/VDC cabinet supply, the Monitor200 accepts a sidewall flow-through sensor for negatively pressurized cabinets and an insertion probe for exhaust ducts. Sophisticated controls include sash position sensing, programmable relay outputs mapped to custom hardware, and PI motor control output.



## Specifications

Rooster™ Module Size	82mm x 135mm x 19mm (3.2" x 5.3" x 0.7")
LCD Display Area	57mm x 70mm (2.3" x 2.7")
Air Velocity Range	0.15 - 20.0 m/s (30 - 4,000 fpm)
Velocity Repeatability	1% (NSF/ANSI-49 Requirement)
Response Time	< 1 second
Supply Voltage	24 VAC/VDC & Wall Adapter
Red LED Indicator	160° viewing angle
Alarm Volume	0 - 85dB (adjustable)
Relative Humidity	5 - 95% (non-condensing)
Operating Temperature	5°C - 60°C (40°F - 140°F)
Storage Temperature	-40°C - 85°C (-40°F - 185°F)
Compliance Standards	CE, RoHS
Rooster™ Package Size	36cm x 30cm x 10cm (14" x 12" x 4")
Rooster™ Package Weight	1.4kg (3 lbs)

## Degree Controls, Inc.

is an ISO-9001 certified, world-class designer and manufacturer of airflow sensing, monitoring, and control solutions. With over 25 years of proven experience, we pride ourselves on delivering solutions which provide the value, differentiation, and service required by our customers, to meet the rapidly changing competitive landscape that they face.

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## Features

- BACNet® MS/TP protocol for easy integration into any building management system.
- Glove-friendly, color touch panel display, with intuitive interface and user messaging.
- Whole-screen background colorization to convey current state, augmented by flashing red LED while in alarm state and configurable alarm tones.
- Instrumentation-class sensor, compatible with latest NSF/ANSI-49 requirements for repeatability and high accuracy calibration.
- Accepts sidewall sensor for negatively pressurized cabinets, insertion probe for exhaust ducts and inline retrofit design to replace legacy airflow alarm monitors.
- Wide velocity range capability, for use in face-velocity or duct-velocity applications.
- Full temperature compensation built-in for accuracy across wide operating temperature range.
- Air temperature sensing included and displayed on-screen.
- Fast and intuitive set-up, with no need to have manual on hand.
- Dual password protection allows users to personalize operational experience, but not override safety features set by facility managers.
- On screen messaging, to alert multiple simultaneous alarms, and real-time latching/mute conditions.
- INFO button for instant access to calibration date and current system configuration.
- Power fail protection to retain settings in case of power mains failure.
- Remote initiation of night setback and night setback airflow settings to manage laboratory air exchange using your chemical fume hood – your most energy efficient option.
- Configurable output relays for remote monitoring of airflow and sash alarms and control of lamp or fan fume hood accessories.
- Sophisticated controls including sash position sensing and PI control to regulate fans or dampers.
- Data and event logging for on screen viewing and export to a USB drive for compliance record keeping.
- Import/export of configuration settings through built-in USB port saves setup time and ensures operational consistency.
- Firmware upgrades via USB to future-proof your investment.
- USB keyboard compatible, for user based information and alphanumeric asset tagging.

## Part Number Format

### TC62330-S-P-B

#### S = Sensor Selection

- 1 = Sidewall Sensor
- 2 = Inline Sensor
- 3 = Probe Sensor

#### P = Power Supply Option

- 1 = US Power Supply
- 2 = EU Power Supply

#### B = Mounting Plate Option

- 1 = Wall Mount Option
- 2 = Semi-Flush Mount Option

#### Optional accessories:

Sash Switch, Part # 62310AS004

Sash Position Sensor Cable Kit, Part # 62310AS008

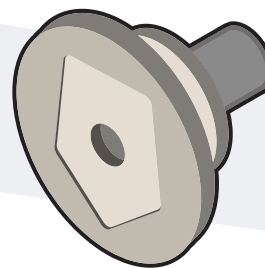
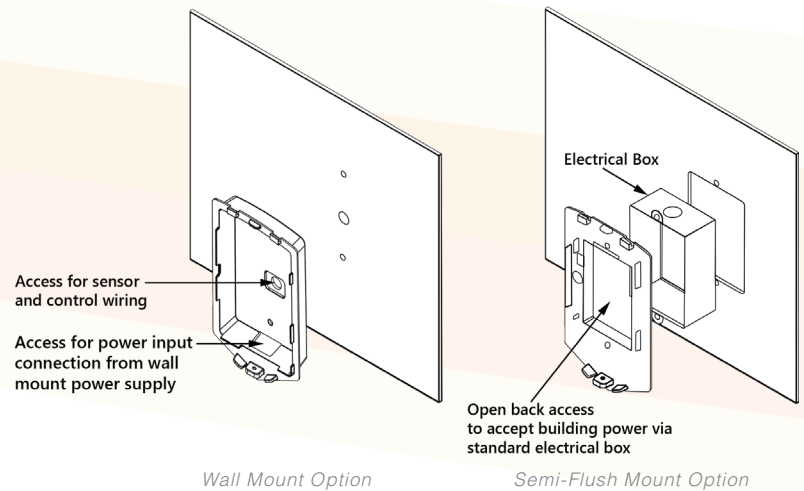
*Call Degree Controls today to discuss private labeling, custom screens, and other available customizations.*

## Monitor Mounting Options

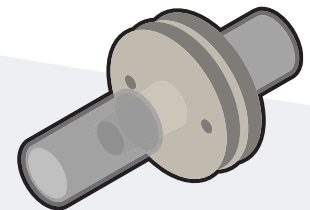
The Monitor200 is mounted in two steps. First, the backplate is mounted to the cabinet or electrical box, and the wires are pulled through and connectorized. The connectors are then plugged into the Monitor100 and the front bezel assembly attaches to the backplate.

## Sensor Mounting Options

- Sidewall sensor is designed to be mounted to the exterior surface of the cabinet, and can be used with the supplied ducting to create an airflow path from the front face, to the inside face of the cabinet. Includes removable and washable air screen.
- Inline sensor is designed for retrofit of failed legacy products, or those which are no longer accurate enough for new standards. The Inline sensor is mounted inside the cabinet plenum area to increase the tamper-resistance of the sensor element. It can be used with the washable filter from the Sidewall sensor.
- Duct mounted Probe sensor is for use in exhaust flow for Class II A or B duct systems. Each Rooster™ sensor comes with a Quick Start Guide and all the hardware you need.



Sidewall Sensor



Inline Sensor



Probe Sensor



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